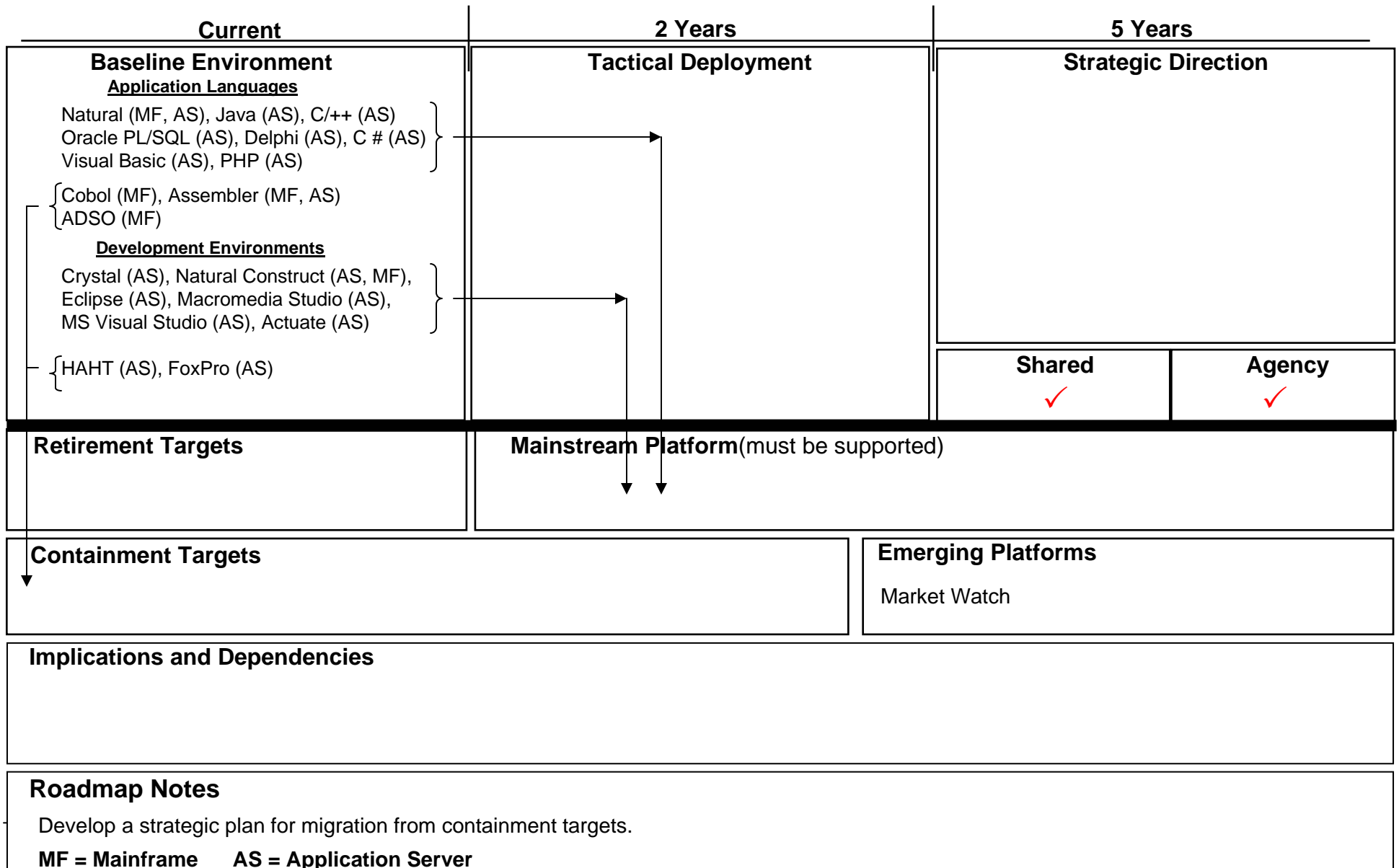


# DISCIPLINE: Application Languages & Development Environments

## Discipline Roadmap for: Application Languages & Development Environments

### DOMAIN: COMPUTING SERVICES



# **DISCIPLINE: Application Languages & Development Environments**

## **Discipline Roadmap for: Application Languages & Development Environments**

### ■ **Discipline Boundaries:**

- The structure of this discipline is intended to serve as part of a Service Oriented Architecture approach.

### ■ **Discipline Standards:**

- Stay within supported software levels.

### ■ **Migration Considerations:**

- Business Case Analysis needed on an agency-by-agency basis when migrating.

### ■ **Exception Considerations:**

- None.

### ■ **Miscellaneous Notes:**

- None.

### ■ **Established Date:**

- June 23, 2004

### ■ **Date Last Updated:**

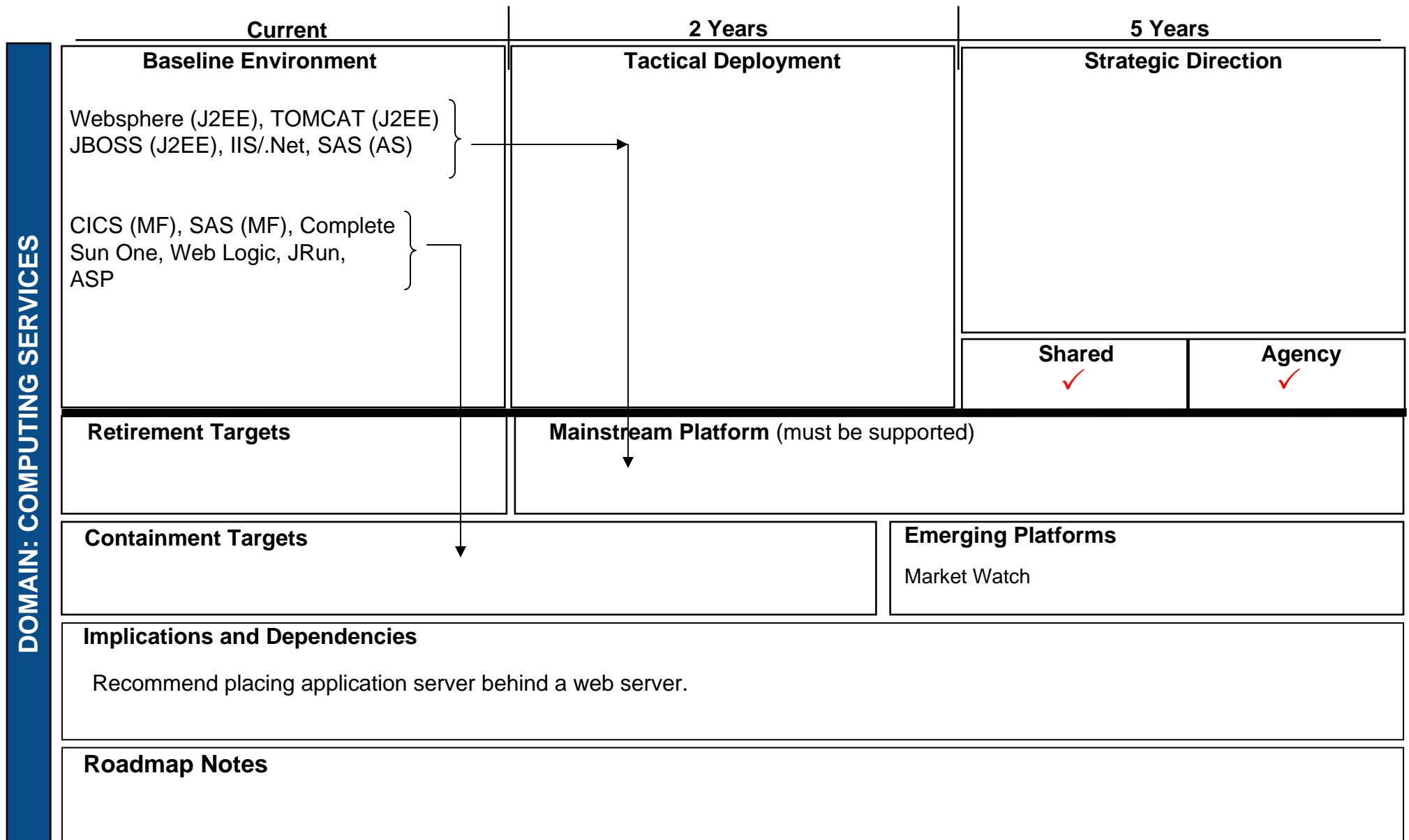
- June 28, 2006

### ■ **Next Review Date:**

- June 2007
-

# DISCIPLINE: Application Software Server Environments

## Discipline Roadmap for: Application Software Server Environments



# **DISCIPLINE: Application Software Server Environments**

## **Discipline Roadmap for: Application Software Server Environments**

### ■ **Discipline Boundaries:**

- The structure of this discipline is intended to serve as part of a Service Oriented Architecture approach.

### ■ **Discipline Standards:**

- Stay within supported software levels.

### ■ **Migration Considerations:**

- Business Case Analysis needed on an agency-by-agency basis when migrating.

### ■ **Exception Considerations:**

- None.

### ■ **Miscellaneous Notes:**

- None.

### ■ **Established Date:**

- June 2004

### ■ **Date Last Updated:**

- June 28, 2006

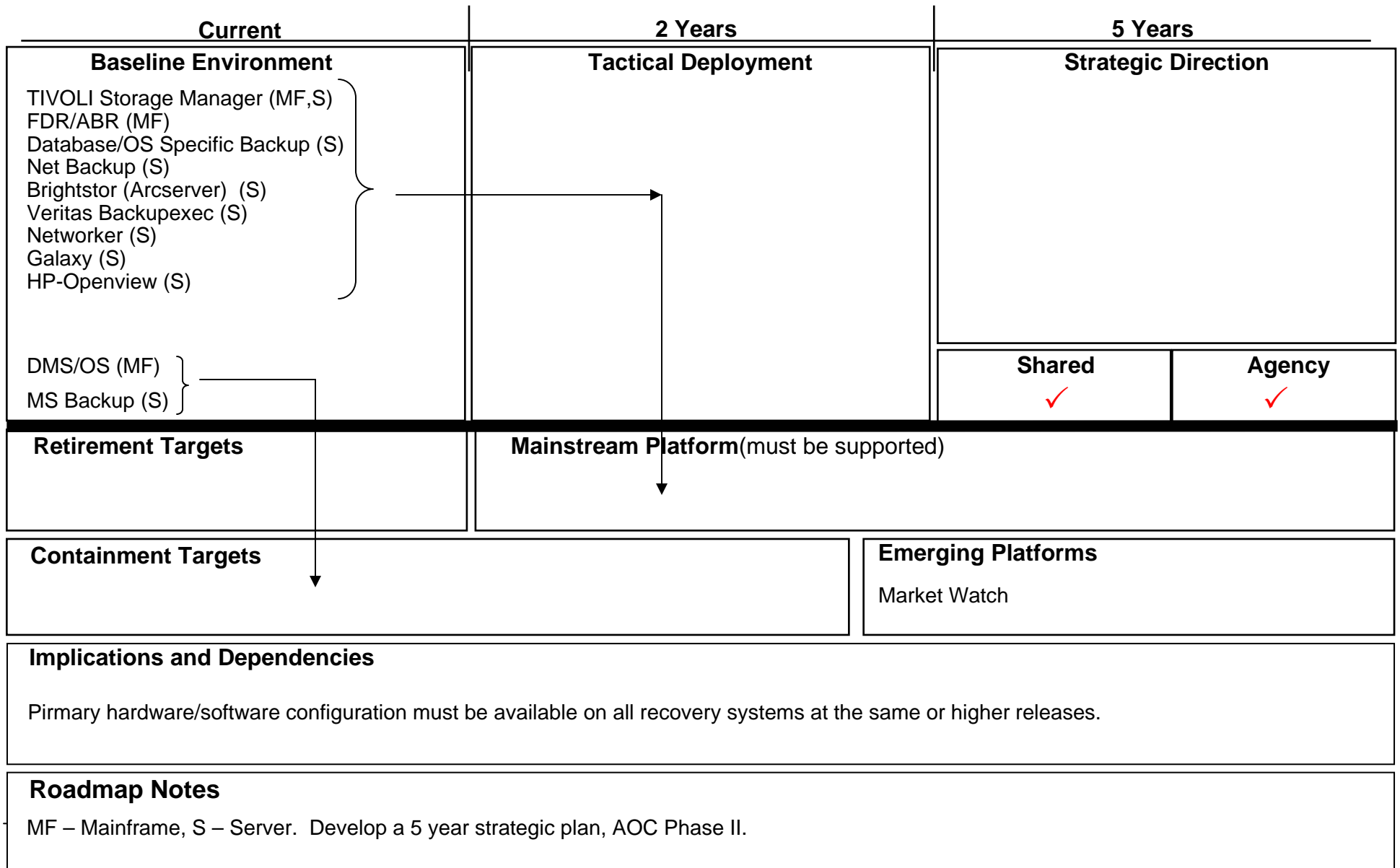
### ■ **Next Review Date:**

- June 2007
-

# DISCIPLINE: Data Backup/Archival

## Discipline Roadmap for: Data Backup/Archival

### DOMAIN: COMPUTING SERVICES



# **DISCIPLINE: Data Backup/Archival**

## **Discipline Roadmap for: Data Backup/Archival**

### ■ **Discipline Boundaries:**

- Data Backup and archival software/methodology for mainframe and/or server platforms.

### ■ **Discipline Standards:**

- Must meet average recovery time requirements as per agency Disaster Recovery Plan.

### ■ **Migration Considerations:**

- How to handle older data backup/recovery media/software when converting to newer technology.

### ■ **Exception Considerations:**

- None

### ■ **Miscellaneous Notes:**

- None

### ■ **Established Date:**

- February 2006

### ■ **Date Last Updated:**

- June 28, 2006

### ■ **Next Review Date:**

- June 2007
-

# DISCIPLINE: Mainframe Hardware and OS

## Discipline Roadmap for: Mainframe Hardware and OS

DOMAIN: COMPUTING SERVICES	Current	2 Years	5 Years	
	<b>Baseline Environment</b> DEC Alpha 2100 4/200 OpenVMS DEC Alpha 4000 Open VMS 7.2-1 Unisys/ClearPath IBM Z800-ZOS	<b>Tactical Deployment</b>	<b>Strategic Direction</b>	

# **DISCIPLINE: Mainframe Hardware and OS (Cont'd)**

## **Discipline Roadmap for: Mainframe Hardware and OS**

- **Discipline Boundaries:**

- ☐ None.

- **Discipline Standards:**

- ☐ None.

- **Migration Considerations:**

- ☐ Open VMS-Need a migration strategy for each application. Planning should begin now.
- ☐ The transition from OS/390 will be completed by 12/2005.

- **Exception Considerations:**

- ☐ None.

- **Miscellaneous Notes:**

- ☐ Linux on the IFL needs to be evaluated.

- **Established Date:**

- ☐ October 7, 2003

- **Date Last Updated:**

- ☐ June 28, 2006

- **Next Review Date:**

- ☐ June 2007
-

# DISCIPLINE: Mainframe & Mid-Tier Databases

## Discipline Roadmap for: Mainframe(MF) & Mid-Tier(MT) Databases

DOMAIN: COMPUTING SERVICES

Current	2 Years	5 Years	
<b>Baseline Environment</b> DB2 (MF & MT) —————→ Software AG ADABAS (MF & MT) —————→  AXP 64 bit dB (MF) Computer Associates IDMS dB (MF) DMS2-Unisys (MF)  Oracle (MT) Microsoft SQL (MT) } —————→ MySQL (MT)  Sybase —————→ Informix (MT) —————→	<b>Tactical Deployment</b>	<b>Strategic Direction</b>	
<b>Retirement Targets</b>  			

# **DISCIPLINE: Mainframe & Mid-Tier Databases (Cont'd)**

## **Discipline Roadmap for: Mainframe(MF) & Mid-Tier(MT) Databases**

### ■ **Discipline Boundaries:**

- The structure of this discipline is intended to serve as part of a Service Oriented Architecture approach.

### ■ **Discipline Standards:**

- None.

### ■ **Migration Considerations:**

- None.

### ■ **Exception Considerations:**

- None.

### ■ **Miscellaneous Notes:**

- Need to research the prevalence/importance of Oracle in this context.

### ■ **Established Date:**

- June 23, 2004

### ■ **Date Last Updated:**

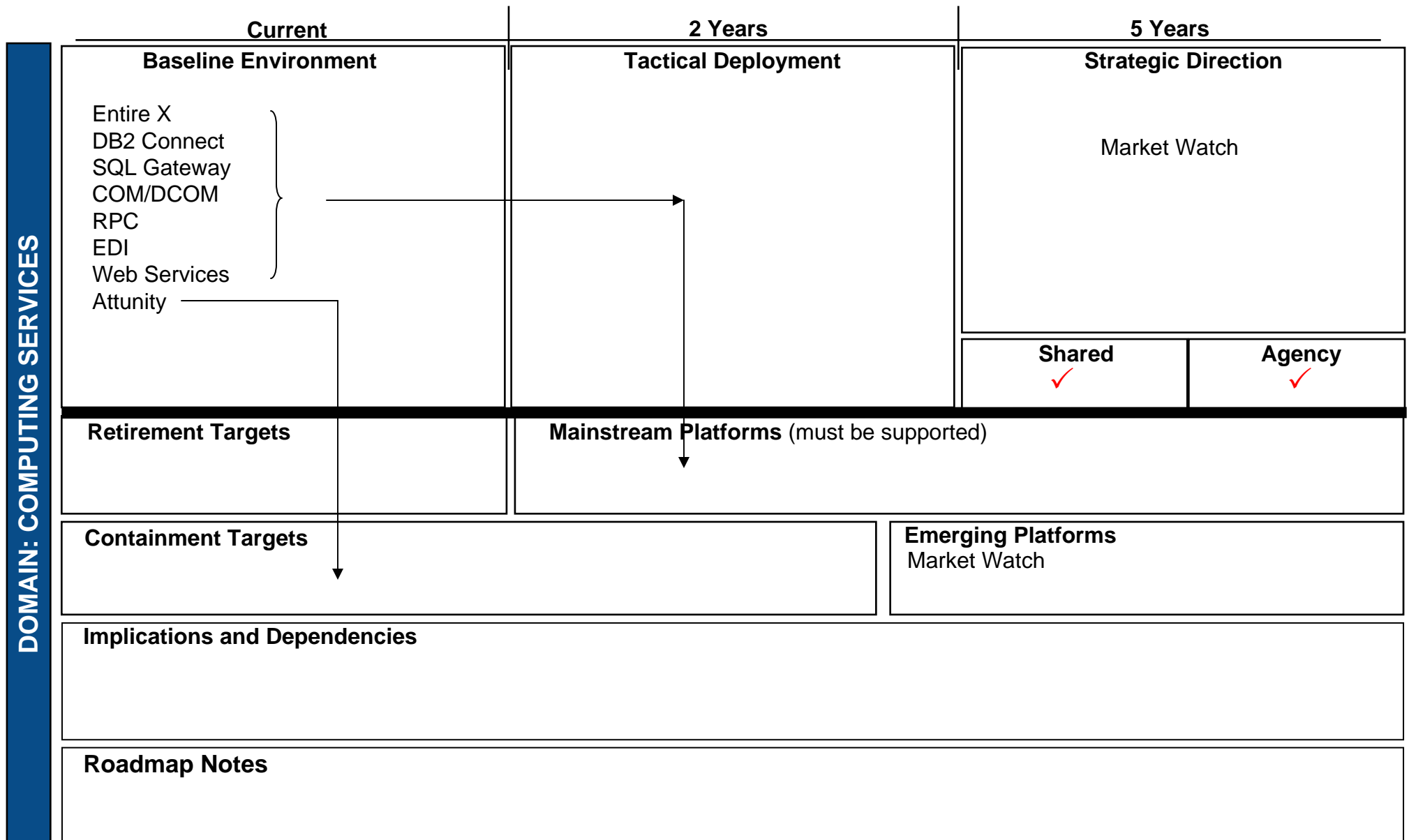
- June 28, 2006

### ■ **Next Review Date:**

- June 2007
-

# DISCIPLINE: Mainframe & Server Middleware

Discipline Roadmap for: Mainframe & Server Middleware



# **DISCIPLINE: Mainframe & Server Middleware**



## **Discipline Roadmap for: Mainframe & Server Middleware**

- **Discipline Boundaries:**
- **Discipline Standards:**
  - ☐ Current within 1 release of mainstream software.
- **Migration Considerations:**
- **Exception Considerations:**
  - ☐ None.
- **Miscellaneous Notes:**
  - ☐ None.
- **Established Date:**
  - ☐ January 25, 2006
- **Date Last Updated:**
  - ☐ June 28, 2006
- **Next Review Date:**
  - ☐ June 2007

# DISCIPLINE: Service & Data Layer Servers - Hardware

## Discipline Roadmap : Service & Data Layer Servers - Hardware

DOMAIN: COMPUTING SERVICES

Current	2 Years	5 Years	
<b>Baseline Environment</b>  RISC —————→ INTEL Compatible —————→	<b>Tactical Deployment</b>	<b>Strategic Direction</b>  Market Watch AMD	
		<b>Shared</b> 	<b>Agency</b> 
<b>Retirement Targets</b>	<b>Mainstream Platforms</b> (must be supported)  RISC, Intel Compatible		
<b>Containment Targets</b>		<b>Emerging Platforms</b>	
<b>Implications and Dependencies</b>			
<b>Roadmap Notes</b>			

# **DISCIPLINE: Service & Data Layer Servers - Hardware**

## **Discipline Roadmap for: Service & Data Layer Servers - Hardware**

### ■ **Discipline Boundaries:**

- ☐ Application and data services for small to mid-range servers not including mainframes.

### ■ **Discipline Standards:**

- ☐ None.

### ■ **Migration Considerations:**

- ☐ None.

### ■ **Exception Considerations:**

- ☐ None.

### ■ **Miscellaneous Notes:**

- ☐ None.

### ■ **Established Date:**

- ☐ November 2004

### ■ **Date Last Updated:**

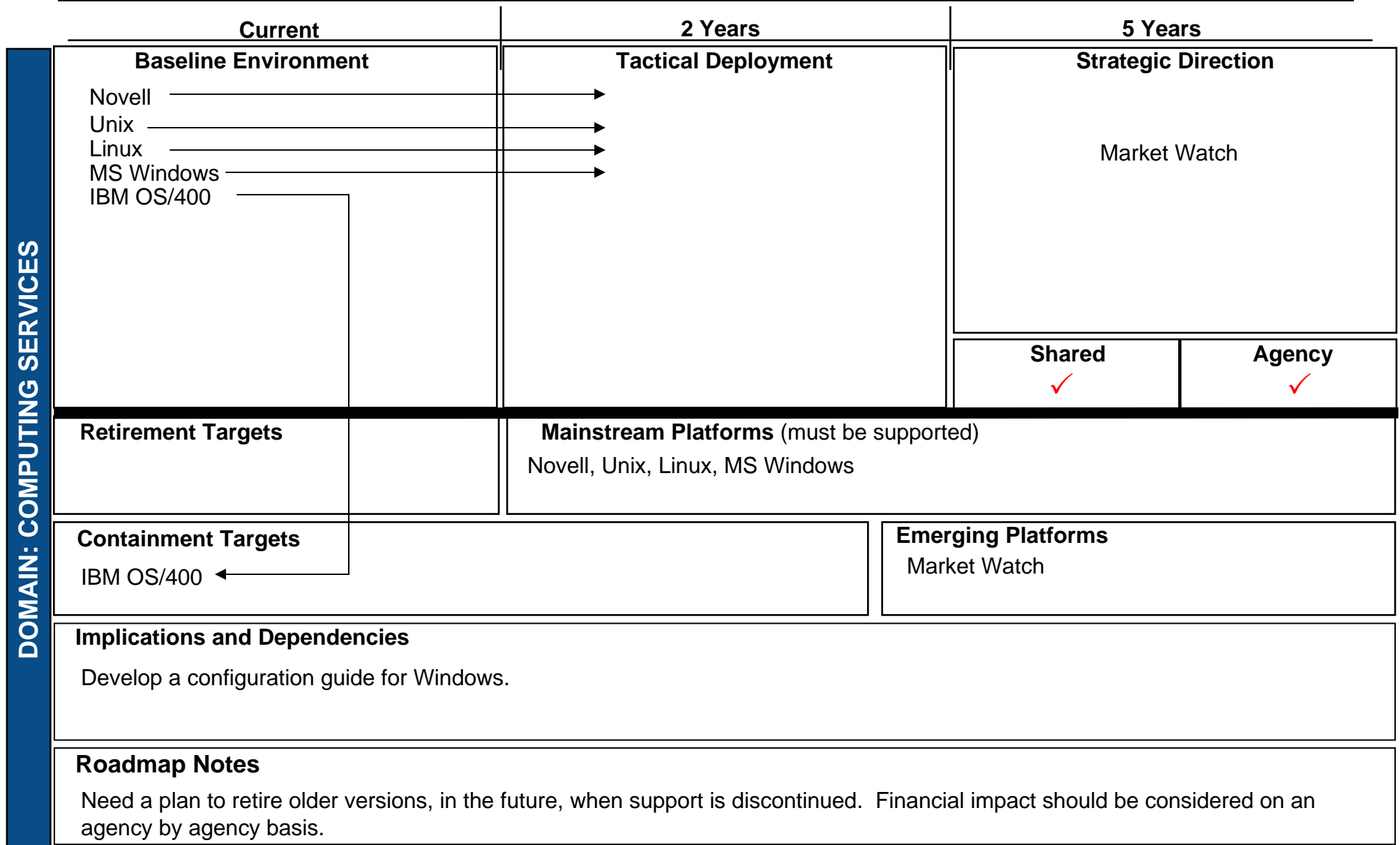
- ☐ June 28, 2006

### ■ **Next Review Date:**

- ☐ June 2007

# DISCIPLINE: Service & Data Layer Servers – OS

## Discipline Roadmap for: Service & Data Layer Servers – OS



# **DISCIPLINE: Service & Data Layer Servers – OS**

## **Discipline Roadmap for: Service & Data Layer Servers – OS**

### ■ **Discipline Boundaries:**

- ☐ Application and data services for small to mid-range servers not including mainframes.

### ■ **Discipline Standards:**

- ☐ No more than 1 release behind current standard releases.

### ■ **Migration Considerations:**

- ☐ MS Windows 2000 migration strategy needed

### ■ **Exception Considerations:**

- ☐ None.

### ■ **Miscellaneous Notes:**

- ☐ None.

### ■ **Established Date:**

- ☐ November 2004

### ■ **Date Last Updated:**

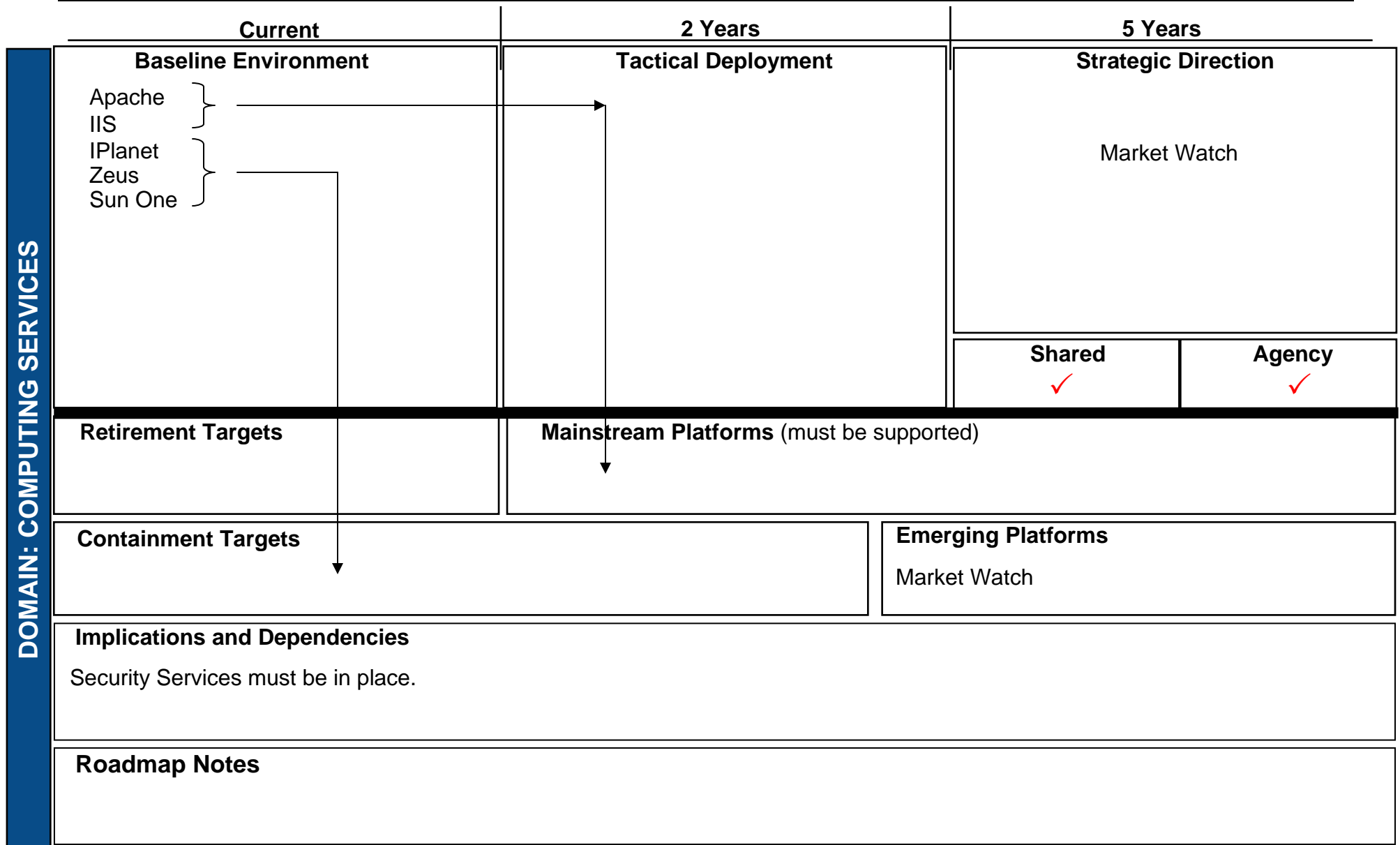
- ☐ June 28, 2006

### ■ **Next Review Date:**

- ☐ June 2007

# DISCIPLINE: WEB SERVER SOFTWARE

## Discipline Roadmap for: Web Server Software



# **DISCIPLINE: Web Server Software**

## **Discipline Roadmap for: Web Server Software**

### ■ **Discipline Boundaries:**

- ☐ Intranet and Internet Servers

### ■ **Discipline Standards:**

- ☐ Stay within supported software levels

### ■ **Migration Considerations:**

- ☐ Migrate when usage of product becomes less than 1% of market share

### ■ **Exception Considerations:**

- ☐ None.

### ■ **Miscellaneous Notes:**

- ☐ None.

### ■ **Established Date:**

- ☐ January 25, 2006

### ■ **Date Last Updated:**

- ☐ June 28, 2006

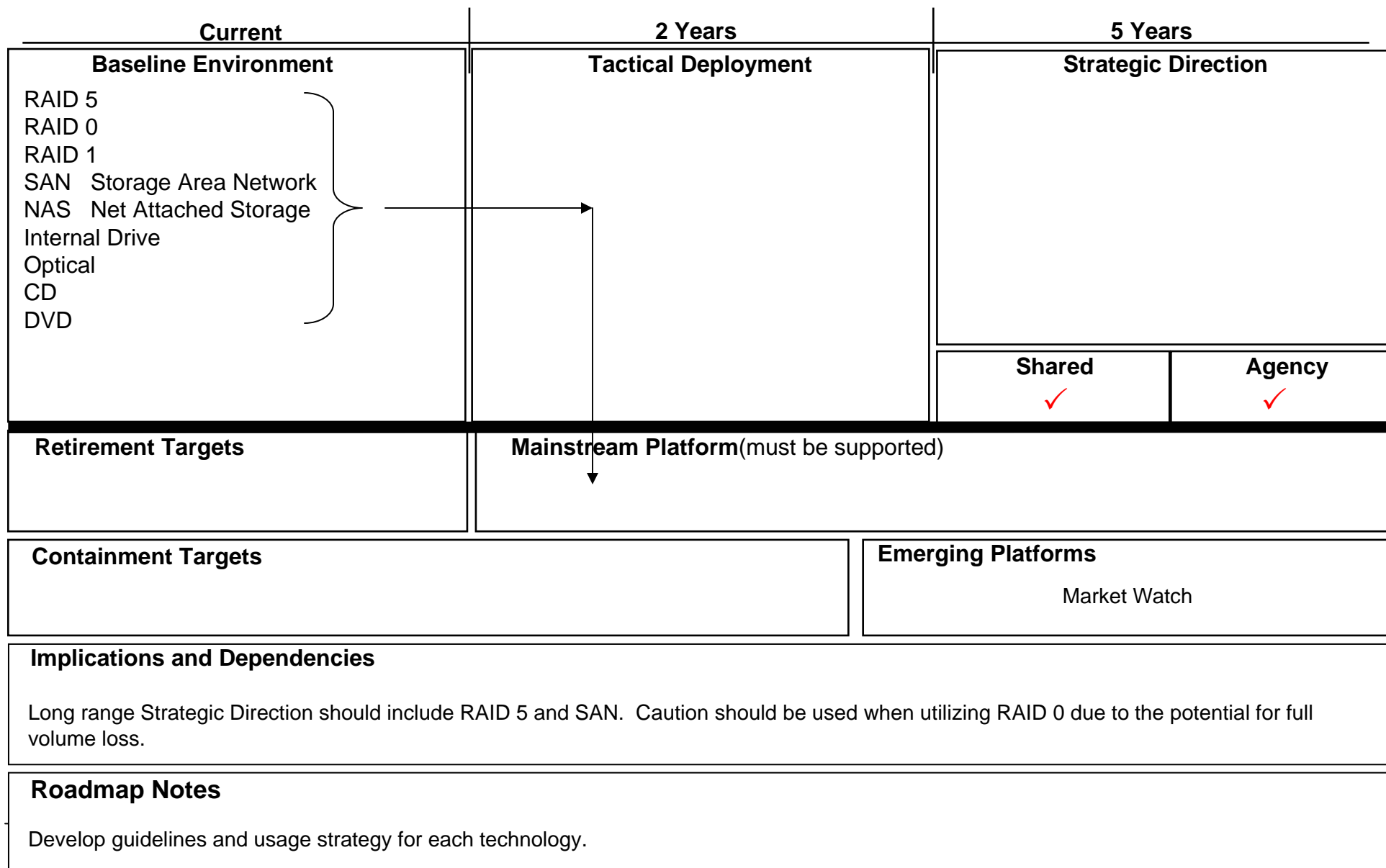
### ■ **Next Review Date:**

- ☐ June 2007

# DISCIPLINE: Storage Subsystem - Disk

## Discipline Roadmap for: Storage Subsystem - Disk

### DOMAIN: COMPUTING SERVICES



# **DISCIPLINE: Storage Subsystem - Disk**

## **Discipline Roadmap for: Storage Subsystem - Disk**

### **■ Discipline Boundaries:**

- ☐ Disk storage for mainframe and/or server platforms.

### **■ Discipline Standards:**

- ☐ None

### **■ Migration Considerations:**

- ☐ Evaluate storage capacity and future growth for migration strategies.

### **■ Exception Considerations:**

- ☐ None

### **■ Miscellaneous Notes:**

- ☐ None

### **■ Established Date:**

- ☐ February 2006

### **■ Date Last Updated:**

- ☐ June 28, 2006

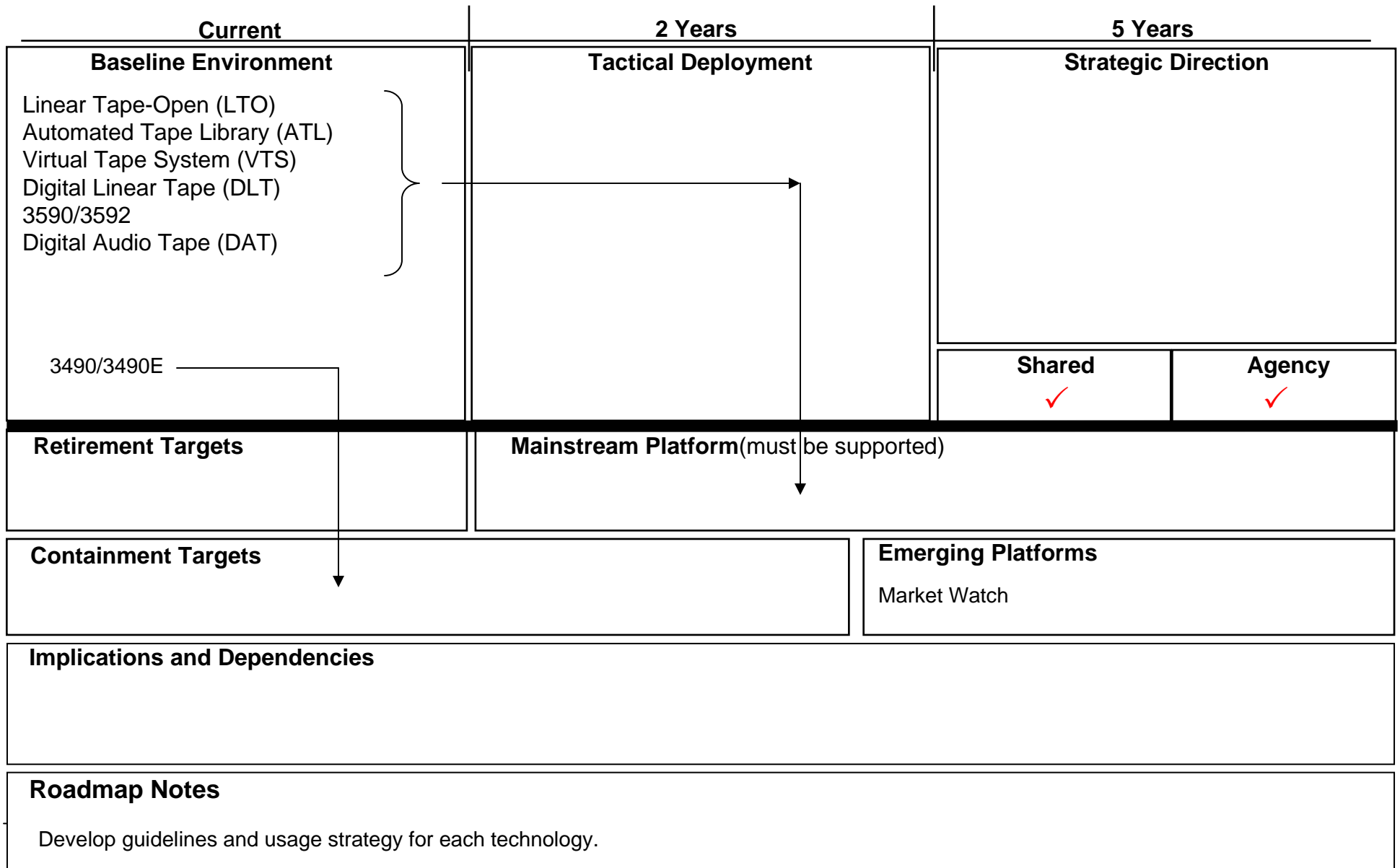
### **■ Next Review Date:**

- ☐ June 2007
-

# DISCIPLINE: Storage Subsystem - Tape

## Discipline Roadmap for: Storage Subsystem - Tape

### DOMAIN: COMPUTING SERVICES



# **DISCIPLINE: Storage Subsystem - Tape**

## **Discipline Roadmap for: Storage Subsystem - Tape**

### ■ **Discipline Boundaries:**

- ☐ Tape storage for mainframe and/or server platforms.

### ■ **Discipline Standards:**

- ☐ None

### ■ **Migration Considerations:**

- ☐ Evaluate storage capacity and future growth for migration strategies.

### ■ **Exception Considerations:**

- ☐ None

### ■ **Miscellaneous Notes:**

- ☐ None

### ■ **Established Date:**

- ☐ February, 2006

### ■ **Date Last Updated:**

- ☐ June 28, 2006

### ■ **Next Review Date:**

- ☐ June 2007
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